

July 20, 2002

Stan Ciuba, PE
Washington State Department of Ecology
Stormwater Unit
PO Box 47696
Olympia, WA 98504

RE: Evaluation and Interim approval of the Stormwater Management StormFilter®

Dear Stan:

Stormwater Management has been researching, designing, manufacturing, and maintaining the StormFilter technology for 10 years within the State of Washington. During this period of time we have gained a wealth of experience and knowledge to make substantial improvements to the technology. From the original horizontal bed systems to the self cleaning siphon actuated cartridges in use now, we have seen continuous increases in performance.

More recently, research by Stormwater Management has led us to have a high expectation that the designs outlined in the CSTUD will result in performance characteristics that will meet or exceed the water quality goals for basic treatment (and enhanced treatment) recently established by Ecology.

Based on this high level of confidence, Stormwater Management Inc. has made the commitment to proceed with the development of a QAPP and the implementation of an aggressive monitoring program to demonstrate the effectiveness of the StormFilter in meeting the State of Washington's, Department of Ecology criteria for stormwater treatment technologies.

Sincerely,

Stormwater Management Inc.

James H. Lenhart, PE
Vice President Research and Development



StormFilter Advantages

- Unit is underground, with nominal space requirements, allowing for maximization of land use, i.e., landscaping, riparian protection, etc.
- A regulated siphon-actuated self cleaning mechanism that prolongs the usability of the filters.
- Multi-functional design and media options can be customized for site-specific treatment.
- Versatility: if site conditions or TMDLs change over time, new media can be updated through routine maintenance.
- Annual maintenance: easy, upgradeable, low time commitment, and lower lifetime costs.
- Provide maintenance, maintenance support, or maintenance training.
- Customer Service and engineering support.

StormFilter Disadvantages

- Requires 2.3 feet of drop from the inlet to outlet.
- Confined entry required for maintenance (for some systems).
- CSF leaf media can release low amounts of soluble nutrients.
- Base flows can affect system.
- 6 - 8 weeks needed from order date to delivery.
- Costs increase linearly with increased flow.



Product Warranty

Except as specifically set forth in this paragraph, there are no warranties, express or implied, including the warranty or merchantability or the warranty for fitness for a particular purpose. All merchandise hereunder is warranted against any defect in materials or workmanship provided by the Seller, providing a claim is made in writing within one (1) year from the date of delivery of the merchandise to the purchaser. Seller's obligation on any claim is limited to replacement or repair of the defective materials FOB at Seller's premises. Except as noted above, Seller is not liable for any loss, injury, or damages to persons or property resulting from failure or defective operation of any merchandise furnished hereunder or delay in performance of this agreement, nor will Seller be liable for direct, special or consequential damages of any kind sustained by Purchaser from any cause.

Claims

Claims for defective merchandise, shortages, delays or failures in shipment or delivery, or for any other cause, shall be deemed waived and released by the Purchaser, unless made in writing within seven (7) days from the occurrence of the claim. Seller shall be given a reasonable time to investigate Purchaser's claims or charges and shall be given access to any site or installation where the merchandise is located. Under no circumstance, shall any suit, action proceeding or claim be brought against Seller more than one (1) year from the date of the shipment of the merchandise to the original purchaser.

Guarantee

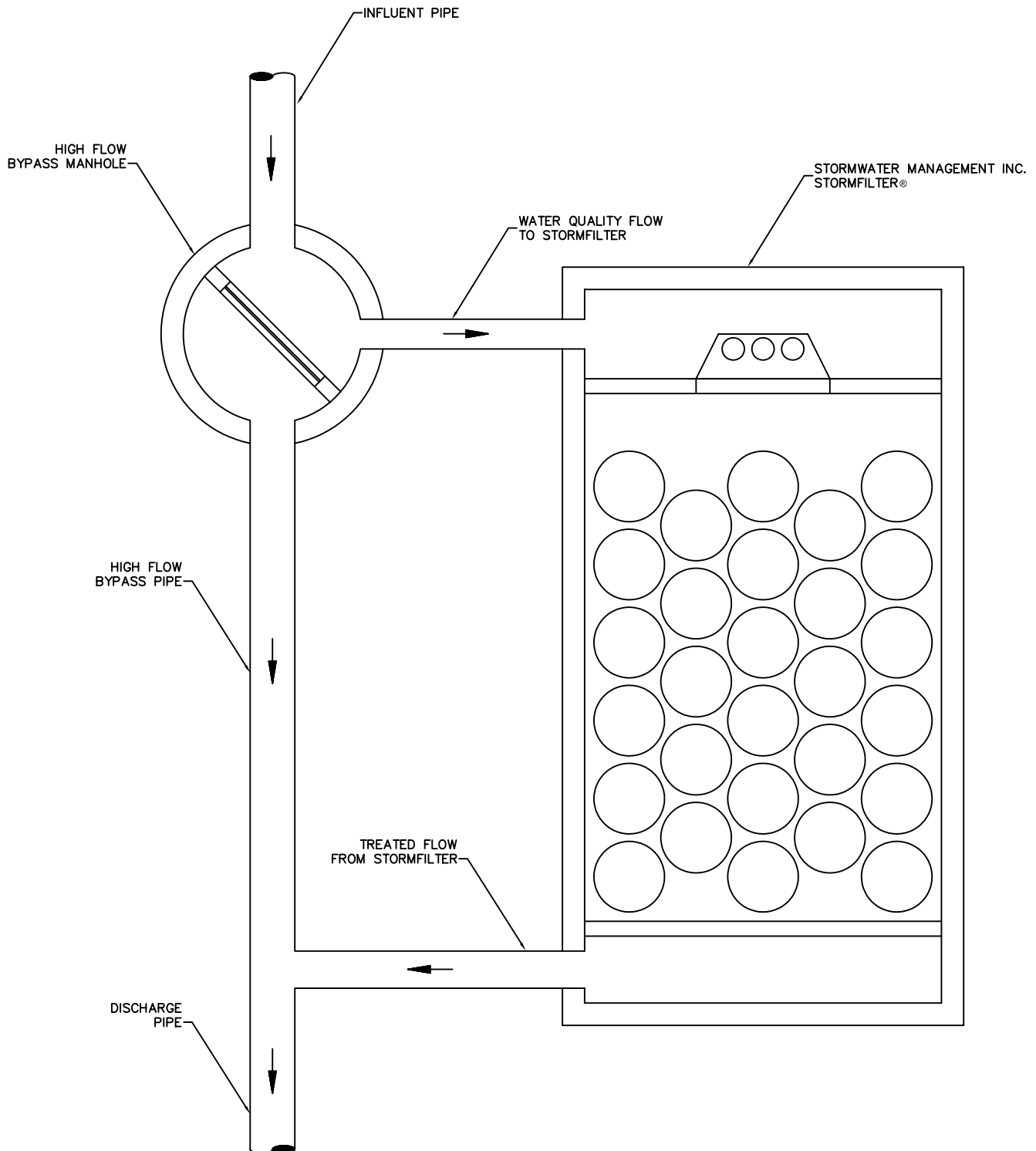
If owner is under a Stormwater Management, Inc. service agreement all parts associated with the cartridge (cartridge, breather valves, floats, cartridge caps, cartridge hood) are guaranteed for life. Additionally, technological updates associated with the cartridge will be included at no cost.

RECOMMENDED USE OF STORMWATER MANAGEMENT INC. PRODUCTS VS. LAND USE

Land Use	Pre-Treatment Recommendations			StormFilter				Storm Screen
	Grit	O&G	Flocculants	Perlite	Leaf	Zeo/GAC/ Perlite	Other	
Commercial								
Office				X				
Retail						X		
Industrial								
Parking and Rooftop					X	X		
Pollutant Specific	Verify*	Verify	Verify				Verify	
Roadways						X		
Feeder	Settling					X		Trash and Debris
Arterial	Settling				X	X		Trash and Debris
Highway	Settling				X	X		Trash and Debris
Multifamily								
Apartments				X				
Condominiums				X				
Single Family								
>=5 dwellings/acre					X	X		
< 5 dwellings/acre	Pond/ Wetland				X	X		
Special Applications								
Maintenance facilities					X	X		
Nursery						X	Iron	
Fast Food						X		
Gas Stations		Spill Control			X			
Wash Racks	Settling	O&G	Verify	X				
Infiltration				X				High Flows
Marine		Verify			X			
Automotive Repair		O&G						
Waste Transfer	Settling	Verify	Verify	X				Trash and Debris
Downstream Detention	Settling in Tank					X	Engineering Specific**	Orifice Protection

*SMI has an industrial division to address site specific industrial applications

**Consult with SMI Engineering



SHEET	DESIGNED BY: JFH					CHECKED BY: _____		CHECK DATE: _____	
1/1	DRAWN BY: JFH					APPROVED BY: _____		APPR. DATE: _____	
1	DATE	BY	REVISION				CK'D	APPR.	

STORMFILTER WITH HIGH FLOW BYPASS CONFIGURATION SCHEMATIC

SCALE:
AS SHOWN

PROJECT NO.
2000

DRAWING FILE NAME:
HFBP.DWG

